

WHAT IS CLAIMED IS:

1. A method for initiating uplink signaling proactively by a MBMS UE comprising steps of:

5 the MBMS UE moving to a new cell;
listening to information on a MBMS control channel;
initiating an uplink signaling according to information on the MBMS control channel;
sending a response message to the UE by a RNC, or
10 if no UE moving to the new cell,
initiating the uplink signaling proactively by the UE if the information received from the MBMS control channel includes an indication for UE counting;
and
sending a response message to the UE by the RNC.

15 2. The method according to Claim 1, wherein the information on the control channel can be information about an indication for point-to-point channel used by MBMS, there is no information for the MBMS on the control channel, or the UE doesn't receive the MBMS control channel.

20 3. The method according to Claim 1, wherein said MBMS UE is the UE in CELL_FACH, CELL_PCH or URA_PCH mode.

25 4. The method according to Claim 1 or 3, wherein for the UE in CELL_FACH, CELL_PCH or URA_PCH mode, said uplink message is a Cell Update message.

30 5. The method according to Claim 1, wherein said MBMS UE comprises the UE in IDLE mode.

6. The method according to Claim 1 or 5, wherein for the UE in IDLE mode, said uplink message is a RRC Connection Request message.

35 7. The method according to Claim 5, wherein the "Reason for cell update" in the Cell Update message is set as "For MBMS channel parameters".

8. The method according to Claim 5, wherein the "Reason for cell update" in the Cell Update message is set as "For MBMS PtP mode".

5 9. The method according to Claim 5, wherein the "Reason for cell update" in the Cell Update message is set as "For MBMS UE counting".

10 10. The method according to Claim 6, wherein the "Reason for connection establishment" in the RRC Connection Request is set as "MBMS channel parameter".

11. The method according to Claim 6, wherein "Reason for connection establishment" in the RRC Connection Request is set as "MBMS PtP mode".

15 12. The method according to Claim 6, wherein the "Reason for connection Establishment" in the RRC Connection Request message is set as "For MBMS UE counting".

20 13. The method according to Claim 1, wherein further comprising steps of:
sending a downlink signaling by the RNC to make the UE enter CELL_FACH state if the reason for sending uplink signaling is "For MBMS UE counting".

25 14. The method according to Claim 1, wherein further comprising steps of:
sending a message of Radio Link Establishment Request by the SRNC to the DRNC if an Iur interface exists and the reason for cell update is "For MBMS PtP mode".

30 15. The method according to Claim 14, wherein further comprising steps of:
adding the UE into the context of the service by the DRNC to add the number of the UEs by 1 after receiving the Radio Link Establishment Request message, and if the increase of UE number makes channel type change from PtP to PtM, the DRNC sending a Radio Link Establishment Failure message to the SRNC.

16. The method according to Claim 1, wherein further comprising steps of:

keeping the UE in CELL_FACH state and sending a Common Transport Channel Resource Initialization message to the DRNC by the SRNC if the Iur interface exists and the SRNC knows that the destination cell under the DRNC uses the channel type of PtM,